Subject Index: Volume 11, 1996

Absorptiometry, dual-energy x-ray
of femoral bone density after hip arthroplasty, 184, 429, 445
Acetabulum
treatment of type III deficiency, 91
Acoustic emission and ultrasound monitoring
of cement–metal interface, 594
American Association of Hip and Knee Surgeons
abstracts from fifth annual meeting, 226
Anatomic Porous Replacement II system
in hip arthroplasty, 419
Anesthesia, local
management of patellar clunk syndrome under, 202
Animal studies
on interface between porous implant and cancellous bone, 945
Ankylosing spondylitis
cementless hip arthroplasty in, 802
Antibiotics
in bone–cement, elution characteristics of, 939
Arthritis
degenerative. *See* Osteoarthritis
posterior cruciate ligament histology in, 726
rheumatoid
multiple prosthetic infections in, 862
survivorship analysis of knee arthroplasty in, 7, 18, 141
Arthrodesis of knee
results of knee arthroplasty after, 732
Arthrography of hip
in revision hip surgery, 64, 543
Arthroscopy
in peripatellar fibrosis after knee arthroplasty, 293

Bias
in hip scoring systems, 820
Biomechanics
of hip center relocation and hip joint forces, 693
Bladder management
after total joint arthroplasty, 882
Bone
mineral density
in femur after hip arthroplasty, 184, 429, 445
in vertebrae after hip revision arthroplasty, 869
osteolysis in hip arthroplasty. *See* Osteolysis in hip arthroplasty
Bone grafts
in hip arthroplasty
with bone-ingrowth component, 661
with cementless cup, 81
femoral artery and nerve compression from, 348
impacted particulate allograft in, 500
long-term follow-up of shelf bulk allografts, 86
in type III acetabular defect, 91
in knee arthroplasty, structural allografts in, 235

Cable grip system
in trochanteric osteotomy, complications of, 400
Carcinoma
periprosthetic metastatic, in hip arthroplasty, 613
Cement
acoustic emission and ultrasound monitoring of cement–metal interface, 594
distal femoral centralizers affecting bonding and porosity of, 687
elution characteristics of antibiotics in, 939
and iliac vein occlusion in hip arthroplasty, 346
mixing techniques affecting mechanical properties of, 813
pressurized, in femoral revision hip arthroplasty, 500
second generation techniques
in osteonecrosis of femoral head, 267
in revision hip arthroplasty in younger patients, 489
survivorship analysis of acetabular components in, 750
ultrasonic removal in revision hip surgery, 120
Centralizers
distal femoral, effects on cement in hip arthroplasty, 687
Ceramic hip arthroplasty
long-term results with, 773
in young patients, 673, 679
Charnley hip arthroplasty
in revision for mechanical stem failure, 405
CLS stem
in cementless hip arthroplasty, 286
Compartment syndrome of buttock
after hip arthroplasty, 609

Subject Index: Volume 11, 1996

Absorptiometry, dual-energy x-ray
of femoral bone density after hip arthroplasty, 184, 429, 445
Acetabulum
treatment of type III deficiency, 91
Acoustic emission and ultrasound monitoring
of cement–metal interface, 594
American Association of Hip and Knee Surgeons
abstracts from fifth annual meeting, 226
Anatomic Porous Replacement II system
in hip arthroplasty, 419
Anesthesia, local
management of patellar clunk syndrome under, 202
Animal studies
on interface between porous implant and cancellous bone, 945
Ankylosing spondylitis
cementless hip arthroplasty in, 802
Antibiotics
in bone–cement, elution characteristics of, 939
Arthritis
degenerative. *See* Osteoarthritis
posterior cruciate ligament histology in, 726
rheumatoid
multiple prosthetic infections in, 862
survivorship analysis of knee arthroplasty in, 7, 18, 141
Arthrodesis of knee
results of knee arthroplasty after, 732
Arthrography of hip
in revision hip surgery, 64, 543
Arthroscopy
in peripatellar fibrosis after knee arthroplasty, 293

Bias
in hip scoring systems, 820
Biomechanics
of hip center relocation and hip joint forces, 693
Bladder management
after total joint arthroplasty, 882
Bone
mineral density
in femur after hip arthroplasty, 184, 429, 445
in vertebrae after hip revision arthroplasty, 869
osteolysis in hip arthroplasty. *See* Osteolysis in hip arthroplasty
Bone grafts
in hip arthroplasty
with bone-ingrowth component, 661
with cementless cup, 81
femoral artery and nerve compression from, 348
impacted particulate allograft in, 500
long-term follow-up of shelf bulk allografts, 86
in type III acetabular defect, 91
in knee arthroplasty, structural allografts in, 235

Cable grip system
in trochanteric osteotomy, complications of, 400
Carcinoma
periprosthetic metastatic, in hip arthroplasty, 613
Cement
acoustic emission and ultrasound monitoring of cement–metal interface, 594
distal femoral centralizers affecting bonding and porosity of, 687
elution characteristics of antibiotics in, 939
and iliac vein occlusion in hip arthroplasty, 346
mixing techniques affecting mechanical properties of, 813
pressurized, in femoral revision hip arthroplasty, 500
second generation techniques
in osteonecrosis of femoral head, 267
in revision hip arthroplasty in younger patients, 489
survivorship analysis of acetabular components in, 750
ultrasonic removal in revision hip surgery, 120
Centralizers
distal femoral, effects on cement in hip arthroplasty, 687
Ceramic hip arthroplasty
long-term results with, 773
in young patients, 673, 679
Charnley hip arthroplasty
in revision for mechanical stem failure, 405
CLS stem
in cementless hip arthroplasty, 286
Compartment syndrome of buttock
after hip arthroplasty, 609

Computerized analysis
of femoral articular shape and geometry, 166
of femoral head movements in gait, 845
of neglected congenital hip dislocation, 893
Constrained Condylar Prosthesis
clinical and radiographic results with, 916
Corrosion
of modular femoral components in hip arthroplasty, 157
Cost of arthroplasty
fixation of femoral stems affecting, 373
in implant matching programs, 968
inpatient factors in, 281
radiography protocol in, 277
Crowe rating
of congenital hip dysplasia, and outcome in hip arthroplasty, 582
Cruciate ligaments
anterior, retention in knee arthroplasty, 194, 553
posterior
and gait in posterior-stabilized knee arthroplasty, 359
histologic evaluation in arthritis and age-matched specimens, 726
posterior tibial slope affecting strain on, 99
and proprioception after knee arthroplasty, 763
Custom design
of femoral component in hip arthroplasty, 247, 312, 905

Demand matching programs
views on, 968
Demographic biases
in hip scoring systems, 820
Dislocation
of hip, congenital
computed tomography and computer-aided design in, 893
Crowe rating and outcome of arthroplasty in, 582
iliofemoral distraction prior to arthroplasty in, 588
of hip prosthesis, complications of reduction in, 979
of patella, chronic irreducible, knee arthroplasty in, 339

Editorial, 881
Electromyography
spontaneous, monitoring in hip arthroplasty, 206
Elution characteristics
of antibiotics in bone–cement, 939
Embolism, pulmonary, 522
after hip arthroplasty, 529
Evoked potentials
somatosensory, monitoring in hip arthroplasty, 438

Femoral artery injury
from bulk allograft in acetabular reconstruction, 348
compartment syndrome in, 609
Femoral nerve palsy
from bulk allograft in acetabular reconstruction, 348
Femur
anatomic characteristics of
accuracy of radiographic predictions on, 312
in osteoarthritis, 163
three-dimensional computerized analysis of, 166
computer simulation of movements in gait, 845
cortical dimensions after uncemented revision hip arthroplasty, 572
fractures of. *See* Fractures, of femur
mineral density after hip arthroplasty, 184, 429, 445
osteolysis in hip arthroplasty
cementless revision in, 668
and fracture of greater trochanter, 757
with Harris-Galante prosthesis, 130
with proximal ingrowth smooth stem implant, 718
osteonecrosis of head, cemented hip arthroplasty in, 267
radiographic appearance and structural properties in hip arthroplasty, 180
trochanteric osteotomy in hip arthroplasty
complications of cable grip system in, 400
and postoperative Trendelenburg gait, 174
Filtered exhaust helmets
and bacterial counts in operating room, 469
Fractures
of femur
in neck, following intertrochanteric fracture, 873
in osteolytic cysts of greater trochanter, 757
revision surgery with extensively coated femoral component in, 981
stem length of modular femoral component in, 204
strength and stability of internal fixation techniques in, 709
supracondylar, after knee arthroplasty, 210, 637
of tibial shaft, after tibial tubercle osteotomy, 117

Gait analysis
computer simulation of femoral head movements in, 845
in lateral approach to hip arthroplasty, 174
in posterior-stabilized knee arthroplasty, 359
in unicompartmental knee arthroplasty, 553
Gamma sterilization
and performance of UHMWPE components, 377
Geniculate artery sacrifice
and patellofemoral complications in knee arthroplasty, 368
Greenfield filter
in pulmonary embolism after arthroplasty, 522

Harris Design 2 hip prosthesis
outcome of, 789
Harris-Galante hip prosthesis
and femoral osteolysis, 130
follow-up on acetabular component of, 298
porous pad separation and loosening of, 474
Hemarthrosis
recurrent, after knee arthroplasty, 977

Heparin therapy
in pulmonary embolism after arthroplasty, 522
Heterotopic ossification
in hip arthroplasty, 58, 802
Hip arthroplasty
acoustic emission and ultrasound monitoring of cement–metal interface in, 594
in ankylosing spondylitis, 802
bipolar femoral head in, in osteoarthritis, 560
bone grafts in. *See* Bone grafts, in hip arthroplasty
bone ingrowth components in, 661, 718
ceramic prosthesis in, 673, 679, 773
CLS stems in, 286
comparison of cementless and cemented techniques
in cost, 373
in durability and wear of acetabular component, 1
in heterotopic ossification, 58
in osteolysis, 1, 135
in radiographic results, 24
compartment syndrome of buttock in, 609
computer simulation of femoral head movements in, 845
in congenital hip dislocation and dysplasia, 582, 588, 893
cost of, 277, 281, 373
custom design of femoral component in, 247, 312, 905
dislocation of prosthesis and reduction complications in, 979
distal femoral centralizers affecting cement in, 687
femoral bone cortical dimensions after, 572
and femoral bone mineral density, 184, 429, 445
follow-up report on cementless hemispheric prosthesis, 298
fractures of femur in, 757
and extensively coated femoral component in revision, 981
stem length of modular femoral component in, 204
strength and stability of internal fixation techniques in, 709
grading outcome of, 47
demographic bias in, 820
hip range of motion measurements in, 565
patient questionnaire responses in, 47, 565, 841
radiographic, reproducibility of, 525
Harris Design 2 prosthesis in, 789
Harris-Galante prosthesis in. *See* Harris-Galante hip prosthesis
heterotopic ossification in, 58, 802
hip center relocation and hip joint forces in, 693
hydroxyapatite-coated implants in, 429, 534, 572
Hylamer acetabular liners in, early failure of, 351
iliac vein occlusion from cement in, 346
indications for, 34
Mallory-Head prosthesis in, 653
metal-on-metal articulating surfaces and wear in, 322
metastatic carcinoma in, periprosthetic, 613
micromotion of press-fit acetabular component in, 390
modular components in. *See* Modular components in hip arthroplasty
operative approach in
to iliac vessels in revision surgery, 704
modified direct lateral, 255
and postoperative gait, 174
osteolysis in. *See* Osteolysis in hip arthroplasty
outcome of contralateral joint in osteoarthritis, 242
porous-coated implants in. *See* Porous-coated implants, in hip arthroplasty
Prodigy prosthesis in, 629
radiography in. *See* Radiography, in hip arthroplasty
revision
cementless cups in, 81
cementless long-stem femoral component in, 411
Charnley's stem in, 405
extensively coated femoral component in, 981
impacted particulate allograft in, 500
in osteolysis, 668, 769
in patients younger than 55 years old, 489
preoperative aspiration arthrography in, 64, 543
removal and reinsertion of femoral component in, 146
in stable femoral component, 482
in type III acetabular deficiency, 91
ultrasound device for cement removal in, 120
vertebral bone density after, 869
second generation cement techniques in
in osteonecrosis of femoral head, 267
in revision surgery, 489
survivorship analysis of acetabular components in, 750
skin flap numbness in, 853
soft-interface stem coating in, failure rate of, 548
somatosensory evoked potential monitoring in, 438
spontaneous electromyography monitoring in, 206
thigh pain and stem size in, 304
tuberculous infection in, 111
venous insufficiency after, chronic, 529
wear in. *See* Wear, in hip arthroplasty
Zweymüller prosthesis in, 643
Hydroxyapatite-coated implants
clinical and roentgenographic results in, 534
response of femur to, 429, 572
Hylamer
in hip arthroplasty, early failure of, 351
in knee arthroplasty, early delamination of, 974

Identifit system
in custom-molded hip arthroplasty, 247
Iliac artery and vein
occlusion from cement in hip arthroplasty, 346
retroperitoneal approach to, in revision hip arthroplasty, 704
Iliofemoral distraction
in reduction of congenital hip dislocation prior to arthroplasty, 588
Implant matching programs
views on, 968

Infections
in hip arthroplasty
aspiration arthrography in, 64, 543
Mycobacterium tuberculosis, 111
in knee arthroplasty
duration and patient class affecting outcome in, 931
Mycobacterium chelonae, 115
Mycobacterium tuberculosis, 217
in multiple prostheses, 862
role of filtered exhaust helmets in prevention of, 469
urinary, after arthroplasty, 882

Knee arthroplasty
anatomic characteristics of femur in, 163, 166
anterior cruciate ligament retaining, 194, 553
arthroscopic treatment of peripatellar fibrosis after, 293
bone compaction in, 743
cementless
compared to cemented techniques, 123
in obesity, 153
in rheumatoid arthritis, 18
comparison of patient questionnaire responses and physician history on, 47
Constrained Condylar Prosthesis in, 916
contact characteristics after, 69, 952
cost of, 277, 281
delamination of Hylamer-M tibial insert in, 876
functional outcome and patient satisfaction in, 831
gait analysis in, 359, 553
gamma sterilized polyethylene components in, 377
geniculate artery sacrifice and patellofemoral complications in, 368
hemarthrosis after, recurrent, 977
indications for, 34
infections in
duration and patient class affecting outcome in, 931
Mycobacterium chelonae, 115
Mycobacterium tuberculosis, 217
Lacey Rotating Hinge device in, failure of, 214
lactate dehydrogenase synovial fluid levels in, 354, 484
lateral retinacular release in, 368, 507
meniscal bearing elements in, delayed failure of, 611
metal-backed patellar component in, 923
nailing of supracondylar femoral fracture after, 210, 637
in Parkinson's disease, 899
patellar clunk syndrome in, 198, 202, 293
in patellar dislocation, chronic irreducible, 339
patellar tracking after. *See* Patella, tracking after knee arthroplasty
peroneal pedicle flap in, 478
Porous-Coated Anatomic prosthesis in, 11, 738
posterior cruciate ligament histology in, 726
proprioception in, 763
results following knee fusion take down, 732
in rheumatoid arthritis, 7, 18, 141
Rotaglide prosthesis in, 453
soft tissue expansion prior to, 512
structural allografting in revision of, 235
survivorship analysis of, 7, 18, 141
suture reaction in, 859
thickness of tibial insert in, 856
tibial slope and posterior cruciate ligament strain in, 99
tibial tubercle medial displacement in, 104
tibial tubercle osteotomy in
extended, 964
tibial shaft fracture after, 117
titanemia in, 620
Total Condylar III Prosthesis in, 916
unicompartmental
acute meniscal injury after, 989
follow-up study on, 782
functional analysis of, 553
revision of, 797

Lacey Rotating Hinge knee arthroplasty
component fractures in, 214
Lactate dehydrogenase
levels in synovial fluid, 354, 484
Lateral retinacular release
in knee arthroplasty, 368, 507
Leg-length discrepancy
in congenital dislocation of hip, 588
in hip arthroplasty, 81, 397
Letters to the editor, 122, 223, 356, 487, 640, 761, 880
Liver transplant recipients
total joint arthroplasty in, 889

Meniscal bearing knee arthroplasty
delayed failure of, 611
Meniscal injury
after unicompartmental knee arthroplasty, 989
Metal-backed patellar component
results of, 923
Metal-on-metal hip arthroplasty
wear in, 322
Micromotion
at porous implant-cancellous bone interface, 945
of press-fit cup in hip revision arthroplasty, 390
Mittelmeier ceramic hip prosthesis, 673, 679
long-term results with, 773
Mixer design
and mechanical properties of acrylic cement, 813
Modular components in hip arthroplasty, 332, 334
advantages and disadvantages of, 397
with Anatomic Porous Replacement II system, 419
corrosion at modular interface, 157
stem length in periprosthetic femoral fracture, 204
wear of polyethylene liner–metallic shell interface in, 602
Mycobacterium infections
chelonae, in knee arthroplasty, 115
tuberculosis
in hip arthroplasty, 111
in knee arthroplasty, 217

Nailing
of supracondylar femoral fractures after knee arthroplasty, 210, 637
Nerve injury in hip arthroplasty
from bulk allograft in acetabular reconstruction, 348
and iliofemoral distraction for congenital hip dislocation, 588
skin flap numbness in, 853
and somatosensory evoked potential monitoring, 438
and spontaneous electromyography monitoring, 206

Obesity
cementless total knee arthroplasty in, 153
Operating rooms
filtered exhaust helmets and bacterial counts in, 469
Ossification, heterotopic
in hip arthroplasty, 58, 802
Osteoarthritis
hip arthroplasty in
with bipolar femoral head, 560
outcome of contralateral joint in, 242
knee arthroplasty in
and morphology of distal femur, 163
survivorship analysis of, 7
lactate dehydrogenase synovial fluid levels in, 354
Western Ontario and McMaster Universities (WOMAC) index on, 565, 831, 841
Osteolysis in hip arthroplasty
of acetabulum, in cemented and cementless components, 135
of femur. *See* Femur, osteolysis in hip arthroplasty
of pelvis, from polyethylene wear, 769
and periprosthetic metastatic carcinoma, 613
Osteonecrosis of femoral head
cemented total hip arthroplasty in, 267

Parkinson's disease
knee arthroplasty in, 899
Patella
bone hardness testing in, 460
clunk syndrome after knee arthroplasty, 198, 202, 293
dislocation of, chronic irreducible, knee arthroplasty in, 339
tracking after knee arthroplasty, 368
arthroscopic management of, 293
contact characteristics in, 69
management under local anesthesia, 202
in medial displacement of tibial tubercle, 104
operative approach affecting, 507
resurfacing of patella affecting, 198
Patellofemoral joint
contact characteristics after knee arthroplasty, 69, 952
Pelvic osteolysis
from polyethylene wear in hip arthroplasty, 769
Pelvic soft tissue mass
from polyethylene wear in hip arthroplasty, 626
Peroneal pedicle flap
in knee arthroplasty, 478
Polydioxanone suture reaction, 859
Polyethylene wear. *See* Wear
Porous-coated implants
in hip arthroplasty
in acetabular revision, 661
with Anatomic Porous Replacement II system, 419
and cortical dimensions of femur, 572
in femoral revision, long-stem prosthesis in, 411
pad separation and loosening of, 474
response of proximal femur to, 429
retrieved, analysis of, 629
in knee arthroplasty, 11, 738
mechanical characteristics of interface with cancellous bone, 945
Press-fit hip arthroplasty
with Identifit custom-molded technique, 247
micromotion of acetabular component in, 390
Prodigy femoral prosthesis
retrieved, analysis of, 629
Pulmonary embolism, 522
in hip arthroplasty, 529

Questionnaire responses on outcome of arthroplasty
in arthritis of knee, 831
in bilateral hip arthroplasty, 841
compared to hip range of motion measurements, 565
compared to physician grading, 47

Radiography
cost reduction strategy in, 277
in hip arthroplasty
in custom stem design, 312
grading of femoral cementing technique in, 525
of proximal femur, 180
results in cemented and cementless techniques, 24
variations in interpretation of, 272, 525
in knee arthroplasty, wear assessment in, 738
Remodeling of femur, 184, 429, 572
reproducibility of measurements, 445
Retroperitoneal approach
to iliac vessels in hip revision arthroplasty, 704
Rheumatoid arthritis
multiple prosthetic infections in, 862
survivorship analysis of knee arthroplasty in, 7, 18, 141
Rotaglide knee arthroplasty, 453

Skin
flap numbness after hip arthroplasty, 853
and wound healing problems. *See* Wound healing problems
Soft tissue expansion
prior to knee arthroplasty, 512
Spondylitis, ankylosing
hip arthroplasty in, 802
Survivorship analysis
in hip arthroplasty with second-generation cement techniques, 750

in knee arthroplasty and rheumatoid arthritis, 7, 18, 141
Suture reactions, 859
Synovial fluid
lactate dehydrogenase levels in, 354, 484

Thigh pain
and femoral stem size in cementless hip arthroplasty, 304
Tibia
compaction technique in knee arthroplasty, 743
medial displacement of, in malposition of femoral component, 104
slope in knee arthroplasty, and posterior cruciate ligament strain, 99
tubercle osteotomy in knee arthroplasty
extended, 964
shaft fracture after, 117
Tibiofemoral contact stress
after knee arthroplasty, 952
Titanium components
outcome with Mallory-Head Porous prosthesis, 653
serum levels of titanium in wear of, 620
Tobramycin
in bone–cement, elution characteristics of, 939
Total Condylar III Prosthesis
clinical and radiographic results with, 916
Transplantation of liver
total joint arthroplasty after, 889
Trendelenburg gait
after hip arthroplasty, 174
Tuberculous infection
in hip arthroplasty, 111
in knee arthroplasty, 217

Ultrasound
and acoustic emission monitoring of cement–metal interface, 594
in cement removal for revision hip surgery, 120
Unicompartmental knee arthroplasty. *See* Knee arthroplasty, unicompartmental
Urinary tract infections
after total joint arthroplasty, 882

Vancomycin
in bone–cement, elution characteristics of, 939
Venous insufficiency
chronic, after hip arthroplasty, 529
Vertebral bone density
after hip revision arthroplasty, 869

Wear
in hip arthroplasty
fixation of acetabular component affecting, 1, 135
with Hylamer acetabular liners, 351
with metal-on-metal articulating surfaces, 322
at metallic shell interface of modular acetabular component, 602
pelvic osteolysis and clinical symptoms in, 769
pelvic soft tissue mass in, 626
in knee arthroplasty
gamma sterilization affecting, 377
with Hylamer-M tibial insert, 876
of meniscal bearing elements, 611
with Porous-Coated Anatomic prosthesis, 11
radiographic assessment of, 738
titanemia in, 620
Western Ontario and McMaster Universities (WOMAC) osteoarthritis index, 565
in bilateral hip arthroplasty, 841
and outcome of knee arthroplasty, 831
Wire system
in trochanteric osteotomy, complications of, 400
Wisconsin uncemented femoral stem
femoral bone remodeling in, 184
Wound healing problems
peroneal pedicle flap in, 478
in polydioxanone suture reaction, 859
soft tissue expansion in prevention of, 512

Zweymüller hip prosthesis
results with, 643

Author Index: Volume 11, 1996

Aaen, Kim, 18
Adamson, Gregory J., 661
Adolphson, Per, 572, 869
Ames, Suzanne E., 298
An, Kai-Nan, 69
Anderson, John G., 831
Anderson, Philip L., 952
Andriacchi, Thomas P., 553

Bannister, Gordon, 529
Barabas, T. G., 679
Barbagallo, S., 445
Barden, Regina M., 931
Bargar, William L., 357, 880
Barrack, Robert L., 373, 763, 820, 969, 975
Bellare, Anuj, 974
Benjamin, James B., 761, 952
Beric, Aleksandar, 438
Bert, Jack M., 611, 905
Berzins, Aivars, 500
Bicalho, Paulo S., 522, 668
Bielski, Robert J., 873
Bierbaum, Benjamin E., 146
Bindelglass, David F., 507
Bødtker, Søren, 272
Booth, Robert E., 277
Bordner, Mary Ann, 469
Borsa, Paul, 763
Bose, William J., 348
Botsford, D. J., 582
Bourne, R. B., 24, 135
Bragdon, Charles R., 322, 845, 945
Brause, Barry D., 862
Brinker, Mark R., 802, 820
Bryk, Eli, 726
Bullas, R., 24
Bullek, David D., 339
Burke, Dennis, 945
Butler, S. P., 445

Cabanela, Miguel E., 411
Cameron, Hugh U., 332, 582, 732
Carey, Christopher, 769
Carlsson, Åke, 390
Carr, Kimberly, 117, 242
Cartier, Philippe, 782
Casha, J. N., 859
Castro, Frank, 373
Chang, Rowland W., 831
Channer, Mark A., 743
Charlson, Mary E., 34
Chassin, Eric P., 553
Chatterji, U., 853
Checovich, Mary M., 184
Chernecky, Robert, 620
Chmell, Michael J., 351, 762
Clark, James E., 247
Cohen, Bruce, 543
Cohen, Robert E., 974
Collier, John P., 377
Comstock, Christopher P., 474
Conley, Arthur, 400
Cox, Dennis D., 281, 802, 820
Currier, John H., 377

Dall, Desmond M., 709
Dansgård, Finn, 11
Davey, John Roderick, 111
Davies, Jeff P., 594
Dean, John C., 99
Delaunay, Christian P., 487, 643
Dendrinos, G. K., 453
De Steiger, R. N., 120
Deysine, Gaston R., 286
DiFazio, Frank A., 298
Doehring, T. C., 693
Donaldson, T. K., 693
Dorr, Lawrence D., 3, 419, 718
Drummond, R. P., 445
Duffy, Gavan P., 899
Duncan, Clive P., 939

Eberle, Robert W., 653
Ebraheim, Nabil A., 873
Eckhoff, Donald G., 115, 163
Edelman, Susan, 141
Eizember, Laura E., 242
Emerson, Roger H., Jr, 653
Eng, Kenneth, 58, 522, 668
Engh, Charles A., 629, 757
Esdaile, John M., 34
Estok, Daniel M., 845
Eulert, J., 923
Evangelista, John, 726
Ezzet, Kace A., 761

Falatyn, Stephen P., 916
Faris, Philip M., 117, 242, 368
Fehring, Thomas K., 543
Fenelon, G. C. C., 64
Fontana, A., 853
Freeman, M. A. R., 122
Freiberg, Andrew A., 565

Galanis, Evanthia C., 889
Galante, Jorge O., 400, 500
Garbuz, Don, 81, 86
Garcia-Cimbrelo, Eduardo, 773
Gehrchen, Poul Martin, 272
Gelalis, Ioannis D., 893
Gentz, Carl-Fredrik, 738
Glisson, Richard R., 743
Gold, David A., 512
Goldberg, Victor M., 99
Goldner, R. D., 217
Gotlin, Robert S., 359
Green, Thomas M., 286
Grelsamer, Ronald P., 782
Griffin, M. P., 460
Griffiths, P., 166
Gross, Alan E., 620
Gross, Allan E., 81, 86
Guinn, Spencer, 373

Hadden, W. A., 859
Hamlet, Ward P., 602
Hamory, Bruce H., 469
Hansen, Else B., 18
Harris, William H., 322, 334, 565, 594, 841, 845, 945

Harwin, Steven F., 223
Hay, J. Eileen, 889
Haynes, R., 813
Head, William C., 653
Healy, William L., 968, 971
Hearn, T., 180
Heck, Bruce E., 873
Heck, David A., 640
Heekin, R. David, 757
Heiner, John, 184, 214
Henderson, M. S., 356
Herberts, Peter, 489
Herbst, Steven A., 242, 368
Herzwurm, Paul J., 757
Higgins, Laurence D., 862
Hodgkinson, J. P., 813
Holt, Mark D., 979
Howe, James G., 298
Hozack, William J., 58, 277, 304, 356, 397, 522, 668, 769, 881
Hsu, Horng-Chaung, 69
Hu, C., 732
Hua, J., 312
Huk, Olga L., 267
Hungerford, David S., 153, 640
Huo, Michael H., 267, 673
Hvid, Ivan, 7
Hyder, N., 679

Iguchi, H., 312
Ikeda, Kazuo, 478
Ilstrup, Duane M., 47
Incavo, Stephen J., 298
Insall, John N., 339, 359

Jackson, W. T., 873
Jacobs, Joshua J., 400
Jaffe, William L., 429
Jasty, Murali, 845, 945
Jensen, Frank, 272
Jensen, Jørn, 7
Jessop, J., 346
Jessup, Douglas E., 977
Johanson, Norman A., 34
John, Joachim, 357
Johnell, Inga Redlund, 738
Jonsson, Kjell, 11

Kabir, Humayun, 438
Kabo, J. Michael, 602, 687
Kandel, Rita A., 620
Kantor, Scott G., 267
Kapandji, Adalbert I., 643
Kärrholm, Johan, 390
Kastenbaum, Donald M., 438
Katoh, T., 460
Kay, Robert M., 602
Keating, E. Michael, 117, 242, 368, 640
Keggi, Kristaps J., 673
Keisu, Kjell, 789
Kelly, A. J., 525
Kilcoyne, Ray F., 163
Kilgus, Douglas J., 687
Kiratli, B. Jenny, 184
Kleinbart, Fredric A., 726
Knight, Rita M., 882
Knudsen, Harald Moustgaard, 7
Kontoyiannis, Dimitrios, 893
Koukoubis, Theodosios D., 893
Krackow, Kenneth A., 153
Kramhøft, Morten, 272
Kreder, Hans J., 111
Kristensen, Ole, 7
Kull, Laura, 400, 802
Kuo, R. S., 445
Kurdy, N. M. G., 813
Kyle, Richard F., 613

Lacagnino, Gerard, 438
Lachiewicz, Paul F., 750, 916
Lai, Kuo-An, 588
Lanzer, William L., 640
Learmonth, I. D., 525
Lee, M. B., 525
Lephart, Scott, 763
Levin, L. S., 217
Levine, William N., 797
Lewallen, David G., 411
Lewis, Courtland G., 640
Liebelt, Ralph, 146
Lieberman, Jay R., 602
Lin, Cheng-Ching, 626
Lindgren, J. Urban, 789
Lindstrand, A., 11
Liu, Jain, 588
Liu, Tang-Kue, 588
Livingston, Brian J., 974
Loewy, John W., 153
Löhr, J., 923
Lombardi, Adolph V., 653
Lowenstein, Jay D., 845, 945
Luessenhop, Christian P., 293, 862
Lugowski, Stanley J., 620
Lund, Peter J., 820
Luo, Zong-Ping, 69

Mabrey, Jay D., 210
Malkani, Arthur L., 411
Mallory, Thomas H., 653
Maloney, William J., 130
Mancuso, Carol A., 34
Maniar, R. N., 637
Mann, John W., III, 255
Markel, David C., 293
Marson, Blake M., 989
Martin, Richard P., 673
Martin, Steven L., 210
Martinez-Sayanes, Jose-Manuel, 773
Masonis, John L., 277
Masri, Bassam A., 939
Mathur, Sanjog K., 153
Matsumoto, Tadami, 478
Mattingly, David A., 146
Maurer, Brian T., 322
Mayor, Michael B., 377
McBeath, Andrew A., 184
McCann, Peter D., 359
McCarthy, Daniel S., 104
McGrory, Brian J., 47, 565, 841
McInerney, D. P., 64
McLardy-Smith, P., 120
Meding, John B., 117, 242, 368
Mehta, Sanjay, 704
Mesa, Joseph J., 397, 769
Messieh, Michael, 202, 354, 484
Meyers, Steven J., 281
Middleton, R. G., 346
Mikosz, Richard P., 553
Miller, David H., 206
Minuesa, Alvaro, 773
Mitchell, Maria B., 653
Mont, Michael A., 153
Montgomery, William K., 163
Moon, Kyoung H., 629
Moran, Michael C., 981
Morishita, Yutaka, 478
Morrey, Bernard F., 47, 889
Morris, Hayden G., 856
Morsi, Elsayed, 81, 86
Moskal, Joseph T., 255
Mow, Christopher S., 235
Mulcahy, D. M., 64
Mulliken, B. D., 24, 135
Munuera, Luis, 773

Nabors, Eric D., 146
Nafei, Adel, 7
Nagamine, Ryuji, 104
Nakatani, Akira, 478
Navalgund, Y. A., 693
Nayak, N. K., 24, 135
Neil, Michael J., 482
Nevelos, A. B., 679
Newman, J. H., 356
Nielsen, Poul T., 18
Nivbrant, Bo, 390

O'Connor, Daniel O., 845, 945
Önsten, Ingemar, 390
Otani, Takuya, 104
Owen, Jeffrey H., 206
Ozuna, Richard M., 797

Pagan, Hector D., 99
Pai, V. S., 174, 609

Pandey, R., 120
Pandit, R., 560
Papagelopoulos, Panpayiotis J., 889
Park, Jun, 157
Park, Sang-Hyun, 602
Park, Y. S., 582
Partridge, Cynthia M., 640
Patel, Dipak V., 761
Pellegrini, Vincent D., Jr, 223, 882
Penner, Murray J., 939
Pereles, Thomas R., 438
Perez, Joseph, 529
Peters, Lance E., 1
Peters, Paul C., 322
Petrera, Pasquale, 704
Petty, William, 348
Pilliar, Robert M., 620
Polyzoides, A. J., 453
Poss, Robert, 351, 762
Pring, Maya, 115
Pritchett, James W., 194
Purtill, James J., 58

Rader, C. P., 923
Ramakrishnan, H. K., 359
Ramamurti, Balaji S., 845, 945
Ranawat, Chitranjan S., 1, 34, 141, 637, 862
Rand, James A., 47, 69
Raut, V. V., 405
Rechnagel, Kurt, 18
Reilly, D. T., 346
Reuben, Jeffrey D., 281, 640
Richman, Jonathan A., 964
Ries, Michael D., 204, 964, 974
Ritter, Merrill A., 117, 242, 368
Robertson, Otto, 11
Robinson, E. J., 135
Robinson, Raymond P., 247, 286
Rodriguez, J. A., 141, 637
Rorabeck, C. H., 24, 135
Rosenberg, Aaron G., 400, 553, 802, 931
Rosson, J. W., 180
Rothman, Richard H., 58, 277, 304, 397, 522, 769, 881
Rubash, Harry E., 693, 704, 763
Rudan, J., 166, 460
Ruddlesdin, C., 534
Ryd, L., 11

Saddler, Stephen, 141
Sahlström, Arne, 738
Salvati, Eduardo A., 267
Sanouiller, Jean-Louis, 782
Sanzén, Lennart, 738
Saum, Kenneth A., 377
Schatzker, J., 180
Schmalzried, Thomas P., 322
Schmidt, Andrew H., 613
Schmotzer, Hans, 709
Schrøder, Henrik M., 18
Schwendeman, L. J., 693
Scott, Christopher E., 214, 487
Scott, David F., 429
Scott, Richard D., 797
Scott, Susan Craig, 512
Scott, W. Norman, 512, 726
Scuderi, Giles R., 339
Sculco, Thomas A., 293
Seaber, Anthony V., 743
Sekel, R., 445
Sexton, D. J., 217
Shackelford, James F., 157
Shaw, James A., 469
Shelley, F. J., 693
Shimozaki, Eiji, 198, 478
Shinar, Andrew A., 565
Shoji, Hiromu, 198
Silverton, Craig D., 400
Simmons, Scott, 763
Siney, P. D., 405
Singerman, Robert, 99
Siu, David, 166
Slater, G. L., 445
Sledge, Clement B., 351, 762
Smart, R. C., 445
Smith, Dennis C., 620
Smith, E. J., 525
Smith, Scott G., 687
Smith, William J., 210
Snorrason, Finnur, 390
Solomon, Michael I., 482
Soucacos, Panayotis N., 893
Spector, Myron, 974
Sperling, Daniel K., 377
Spinner, R. J., 217
Stamm, Elizabeth R., 163
Steed, David, 704
Stentström, A., 11
Strömberg, Christer N., 489
Stuchin, Steven A., 438
Stulberg, S. David, 831
Sumner, Dale R., 500
Surowiak, J., 180
Sutherland, Charles J., 91, 206, 357
Sutula, Lauren C., 377
Sychterz, Christi J., 629
Szivek, John A., 952

Tatsis, Christos, 893
Taylor, Jeffery K., 157
Tchejeyan, Gregory H., 709
Thomas, William H., 351, 762
Thompson, Roby C., Jr, 613
Thornhill, Thomas S., 797
Toksvig–Larsen, Søren, 11
Tomita, Katsuro, 478
Towers, Jeffrey, D., 704
Trakru, Sunil, 704
Trousdale, Robert T., 899
Tsai, Davis, 831
Tsakonas, H., 453
Tse, M.-K., 594

Umlas, M. E., 1, 637

Vail, Thomas P., 743
Vanderby, Ray, 214
Vartziotis, Kostas, 893
Vedantam, Ravishankar, 534
Ververeli, Prodromos A., 277
Vickery, Christopher, 529
Vigorita, Vincent J., 726
Villar, R. N., 853
Vince, Kelly G., 123, 507
Vinh, Tuyethoa, 629
Von Schroeder, Herbert P., 620
Vresilovic, Edward J., 304

Wagner, Aase, 272
Walker, Gordon, 613
Walker, P. S., 312
Wallrichs, Steven L., 411
Wan, Zhinian, 419, 718
Wang, Jun-Wen, 626
Warwick, David, 529
Wasielewski, Ray C., 500, 931
Watson, Mary, 281
Weber, Andrew B., 856
Wevers, H. W., 166, 460
White, Stephen E., 104
Whiteside, Leo A., 104, 125
Wiedel, Jerome D., 235
Willmann, Gerd, 762
Wilson, Michael A., 184
Wilson, Stephen A., 359
Windsor, Russell E., 293
Wittmann, R., 923
Wixson, Richard L., 831
Wong, N. S., 525
Woolson, Steven T., 130, 474, 661
Wootten, Mary E., 359
Worland, Richard L., 977
Worzala, Frank J., 214
Wroblewski, B. M., 405

Xenakis, Theodore A., 893

Yerby, Scott A., 157

Zatorski, Laurine E., 673
Ziegler, Brian S., 750